DOCUMENT RESUME

ED 465 582 SE 066 275

TITLE	Simple Machines. Physical Science in Action[TM]. Schlessinger Science Library. [Videotape].
ISBN	ISBN-1-57225-306-1
PUB DATE	2000-00-00
NOTE	0p.; For other videotapes in series, see SE 066 251-261. Teacher's Guide is available from http://www.libraryvideo.com. Eleven-volume set can be purchased for $329.45.
AVAILABLE FROM	Schlessinger Media, P.O. Box 580, Wynnewood, PA 19096-0580 (23-minute videotape, $29.95). Tel: 800-843-3620 (Toll Free); Fax: 610-645-4050; Web site: http://www.libraryvideo.com.
PUB TYPE	Guides - Classroom - Teacher (052) -- Non-Print Media (100)
EDRS PRICE	Document Not Available from EDRS.
DESCRIPTORS	*Demonstrations (Science); Force; Hands on Science; Intermediate Grades; Junior High Schools; *Physical Sciences; Science Activities; Science Instruction; Videotape Recordings
IDENTIFIERS	*Simple Machines

ABSTRACT

In today's world, kids are aware that there are machines all around them. What they may not realize is that the function of all machines is to make work easier in some way. Simple Machines uses engaging visuals and colorful graphics to explain the concept of work and how humans use certain basic tools to help get work done. Students will learn that work happens when a force is used to move an object over a distance. Simple machines are used to either reduce the force or increase the distance over which the force is exerted. Six simple machines are explained: the lever, the wheel and axle, the pulley, the inclined plane, the screw and the wedge. Real-life demonstrations are used to teach concepts such as effort force, resistance force and mechanical advantage. A fun, hands-on activity is included in which students construct their own pulley system and measure mechanical advantage for themselves. This program is based on the concepts outlined in the National Science Education Standards for Physical Science: Properties and Changes of Properties of Matter, Motions and Forces and Transfer of Energy. This program includes a teacher's guide. (Author)

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